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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	08/765,108
		Filing Date	March 27, 1997
		First Named Inventor	Monty Krieger
		Group Art Unit	1646
		Examiner Name	Ulm, John D.
Sheet 1 of 13	Attorney Docket Number	MIT 6620 CIP	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		3,625,214		Higuchi	12-07-1974	
		4,244,946		Rivier, et al.	01-13-1981	
		4,305,672		Johnston, et al.	12-15-1981	
		4,316,891		Guillemin, et al.	02-23-1982	
		4,629,784		Stammer	12-16-1986	
		4,789,734		Pierschbacher	12-06-1988	
		4,792,525		Ruoslahti, et al.	12-20-1988	
		4,868,116		Morgan, et al.	09-19-1989	
		4,906,474		Langer, et al.	03-06-1990	
		4,925,673		Steiner, et al.	05-15-1990	
		4,980,286		Morgan, et al.	12-26-1990	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	90/05748		Mass. Inst. Tech.	05-31-1990		
		WO	93/01286		Mass. Inst. Tech.	01-21-1993		
		JP	05 192179		Chugai Pharm. Co.	08-03-1993	no translation	
		JP	03 290184		Chugai Pharm. Co	12-19-1991	no translation	

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		ABRAMS, et al., "Macrophages in <i>Drosophila</i> embryos and L2 cells exhibit scavenger receptor-mediated endocytosis," <i>Proc. Natl. Acad. USA</i> 69:16375-16379 (1993).	
		ABUMRAD, et al., "Cloning of a Rat Adipocyte Membrane Protein Implicated in Binding or Transport of Long-chain Fatty Acids That Is Induced during Preadipocyte Differentiation," <i>J. Biol. Chem.</i> 268:17665-17668 (1993).	
		ACTON, et al., "Expression Cloning of SR-BI, a CD36-related Class B Scavenger Receptor," <i>J. Biol. Chem.</i> 269(33):21003-21009 (1994).	
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		ASHKENAS, et al., "Structures and high and low affinity ligand binding properties of murine type I and type II macrophage scavenger receptors," <i>J. Lipid Res.</i> 34:983-1000 (1993).	
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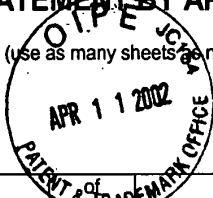
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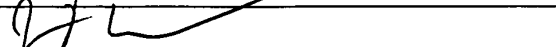
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		Examiner Name	Ulm, John D.
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		BALDINI, et al., "Cloning of a Rab3 isotype predominately expressed in adipocytes," <i>Proc. Natl. Acad. Sci. USA</i> 89:5049-5052 (1992).	
		BASU, et al., "Independent Pathways for Secretion of Cholesterol and Apolipoprotein E by Macrophages," <i>Science</i> 219:871-873 (1983).	
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		<del>CROOKE, "Progress toward oligonucleotide therapeutics: pharmacodynamic properties," <i>FASEB J.</i> 7:533-539 (1993).</del>	
		<del>GULLEN, "Use of Eukaryotic Expression Technology in the Functional Analysis of Cloned Genes," <i>Methods in Enz.</i> 152:684-704 (1987).</del>	
		<del>DAUGHERTY, et al., "Polymerase chain reaction facilitates the cloning, CDR-grafting and rapid expression of a murine monoclonal antibody directed against the CD18 component of leukocyte integrins," <i>Nucl. Acids Res.</i> 19:2471-2476 (1991).</del>	
		<del>DE RIJKE, et al., "Binding characteristics of scavenger receptors on liver endothelial and Kupffer cells for modified low-density lipoproteins," <i>Biochem. J.</i> 304:69-73 (1994).</del>	
		<del>DOI, et al., "Charged Collagen Structure Mediates the Recognition of Negativity Charged Macromolecules by Macrophage Scavenger Receptors," <i>J. Biol. Chem.</i> 268:2126-2133 (1993).</del>	
		<del>DUVAL-VALENTIN, et al., "Specific inhibition of transcription by triple helix-forming oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 89:504-508 (1992).</del>	
		<del>ELLINGTON, et al., "Selection <i>in vitro</i> of single-stranded DNA molecules that fold into specific ligand-binding structures," <i>Nature</i> 355:850-852 (1992).</del>	
		<del>ENDEMANN, et al., "CD36 is a Receptor for Oxidized Low-Density Lipoprotein," <i>J. Biol. Chem.</i> 268:14814-14816 (1993).</del>	
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		<del>FRASER, et al., "Divalent cation-independent macrophage adhesion inhibited by monoclonal antibody to murine scavenger receptor," <i>Nature</i> 364:343-346 (1993).</del>	

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		FREEMAN, et al., "Expression of type I and type II bovine scavenger receptors in Chinese hamster ovary cells: Lipid droplet accumulation and nonreciprocal cross competition by acetylated and oxidized low density lipoprotein," <i>Proc. Natl. Acad. Sci. USA</i> 88:4931-4935 (1991).	
2		FUKASAWA, et al., "Chinese Hamster Ovary Cells Expressing a Novel Type of Acetylated Low Density Lipoprotein Receptor," <i>J. of Biol. Chem.</i> 270(4):1921-1927 (1995).	
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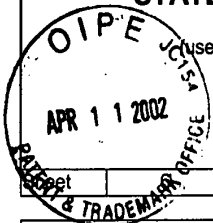


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		HERZ, et al., "Surface location and high affinity for calcium of a 500-kd liver membrane protein closely related to the LDL-receptor suggest a physiological role as lipoprotein receptor," <i>EMBO J.</i> 7:4119-4127 (1988).	
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		ITAKURA, et al., "Synthesis and use of synthetic oligonucleotides," <i>Ann. Rev. Biochem.</i> 53:323-356 (1984).	
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		KINGSLEY, et al., "Receptor-mediated endocytosis of low-density lipoprotein: Somatic cell mutants define multiple genes required for express of surface-receptor activity," <i>Proc. Natl. Acad. Sci. USA</i> 81:5454-5458 (1984).	

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✓		KOBZIK, "Lung Macrophage Uptake of Unopsonized Environmental Particles," <i>J. of Immunol.</i> 155(1):367-376 (1995).
✓		KODAMA, et al., "Type I macrophage scavenger receptor contains $\alpha$ -helical and collagen-like coiled coils," <i>Nature</i> 343:531-535 (1990).
✓		KRIEGER, "Contemplation of Mutations in the LDL Pathway of Receptor-Mediated Endocytosis by Cocultivation of LDL Receptor-Defective Hamster Cell Mutants," <i>Cell</i> 33:413-422 (1983).
✓		KRIEGER, "Molecular Flypaper and atherosclerosis: structure of the macrophage scavenger receptor," <i>Trends Biochem. Sci.</i> 17:141-146 (1992).
✓		KRIEGER, "Molecular Flypaper, Host Defense, and Atherosclerosis," <i>J. Biol. Chem.</i> 268(7):4569-4572 (1993).
✓		KRIEGER, "Reconstitution of the Hydrophobic Core of Low-Density Lipoprotein," <i>Meth. Enzymol.</i> 128:608-613 (1986).
✓		KRIEGER, et al., "Amphotericin B selection of mutant Chinese hamster cells with defects in the receptor-mediated endocytosis of low density lipoprotein and cholesterol biosynthesis," <i>Proc. Natl. Acad. Sci. USA</i> 80:5607-5611 (1983).
✓		KRIEGER, et al., "Isolation of Chinese Hamster Cell Mutants Defective in the Receptor-mediated Endocytosis of Low-Density Lipoprotein," <i>J. Mol. Biol.</i> 150:167-184 (1981).
✓		KRIEGER, et al., "Reconstituted Low-Density Lipoprotein," <i>J. Supra. Struct.</i> 10:467-478 (1979).
✓		KRIEGER, et al., "Structures and Functions of Multiligand Lipoprotein Receptors: Macrophage Scavenger Receptors and LDL Receptor-Related Protein (LRP)," <i>J. Annu. Rev. Biochem.</i> 63:601-637 (1994).

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	08/765,108
		Filing Date	March 27, 1997
		First Named Inventor	Monty Krieger
		Group Art Unit	1646
		Examiner Name	Ulm, John D.
		Attorney Docket Number	MIT 6620 CIP
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		KRIEGER, et al., "Cold Spring Harbor Symposia on Quantitative Biology Vol. LVII, 605-609 (1992).	
		LEWIS, et al., "Automated site-directed drug design: the concept of spacers/skeletons for primary structure generation," <i>Proc. R. Soc. Lond.</i> 236, 125-140 and 141-162 (1989).	
		LOWRY, et al., "Protein Measurement with the Folin-Phenol Reagent," <i>J. Biol. Chem.</i> 193:265-275 (1951).	
		LUOMA, et al., "Expression of $\alpha_2$ -Macroglobulin Receptor/Low Density Lipoprotein Receptor-related Protein and Scavenger Receptor in Human Atherosclerotic Lesions," <i>J. Clin. Inv.</i> 93(5):2014-2021 (1994).	
		MAHER, et al., "Inhibition of DNA-Binding Proteins by Oligonucleotide-Directed Triple Helix Formation," <i>Science</i> 245:725-730 (1989).	
		MATSUMOTO, et al., "Human macrophage scavenger receptors: Primary structure, expression, and localization in atherosclerotic lesions," <i>Proc. Natl. Acad. Sci. USA</i> 87:9133-9137 (1990).	
		McKINALLY, et al., "Rational design of antiviral agents," <i>Annu. Rev. Pharmacol. Toxicol.</i> 29:111-122 (1989).	
		MERRIFIELD, "Solid Phase Peptide Synthesis I. The Synthesis of a Tetrapeptide," <i>J. Am. Chem. Soc.</i> 85:2149-2154 (1964).	
		MOESTRUP, et al., "Distribution of the $\alpha_2$ -macroglobulin receptor/low density lipoprotein receptor-related protein in human tissues," <i>Cell Tissue Res.</i> 269:375-382 (1992).	
		MULLIGAN, "The Basic Science of Gene Therapy," <i>Science</i> 260:926-932 (1993).	
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		<del>NAGELKERKE, et al., "In-Vivo and in-Vitro Uptake and Degradation of Acetylated Low-Density Lipoprotein by Rat Liver Endothelial, Kupffer, and Parenchymal Cells," J. Biol. Chem. 258:12221-12227 (1983).</del>	
		<del>NAITO, et al., "Tissue Distribution Intracellular Localization, and In-Vitro Expression of Bovine Macrophage Scavenger Receptors," Am. J. Pathol. 139:1411-1423 (1991).</del>	
		<del>NARANG, et al., in "Chemical Synthesis of Deoxyoligonucleotides by the Modified Triester Method," Methods Enzymol. 65:610-620 (1980).</del>	
		<del>OCKENHOUSE, et al., Activation of Monocytes and Platelets by Monoclonal Antibodies or Malaria-infected Erythrocytes Binding to the CD36 Surface Receptor in vitro," J. Clin. Invest. 84:468-475 (1989).</del>	
		<del>OFFENSPERGER, et al., "In-vivo inhibition of duck hepatitis B virus replication and gene expression by phosphorothioate modified antisense oligodeoxynucleotides," EMBO J. 12:1257-1262 (1993).</del>	
		<del>OQUENDO, et al., "CD36 Directly Mediates Cytoadherence of Plasmodium falciparum Parasitized Erythrocytes," Cell 58:95-101 (1989).</del>	
		<del>ORSON, et al., "Oligonucleotide inhibition of IL2R<math>\alpha</math> mRNA transcription by promoter region-collinear triplex formation in lymphocytes," Nucl. Acids Res. 19:3435-3441 (1991).</del>	
		<del>OTTNAD, et al., "Differentiation of binding sites on reconstituted hepatic scavenger receptors using oxidized low density lipoprotein," Biochem J. 281:745-751 (1992).</del>	
		<del>PEARSON, et al., "Expression cloning of dSR-G1, a class G macrophage-specific scavenger receptor from Drosophila melanogaster," Proc. Natl. Acad. Sci. USA 92:4056-4060 (1995).</del>	
		<del>PENMAN, et al., The Type I and Type II Bovine Scavenger Receptors Expressed in Chinese Hamster Ovary Cells are Trimeric Proteins with Collagenous Triple Helical Domains Comprising Noncovalently Associated Monomers and Cys<sup>63</sup>-Disulfide-linked Dimers," J. Biol. Chem. 266:23985-23993 (1991).</del>	

Examiner's Signature	<i>John D. Ulm</i>	Date Considered	10-2-92
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		Filing Date	March 27, 1997	
		First Named Inventor	Monty Krieger	
		Group Art Unit	1646	
		Examiner Name	Ulm, John D.	
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		PERRY, et al., "The Use of 3D Modeling Databases for Identifying Structure-Activity Relationships," <u>QSAR: Quantitative Structure-Activity Relationships in Drug Design</u> pp. 189-193 (Alan R. Liss, Inc. 1989).
		PITAS, et al., "Uptake of Chemically Modified Low-Density Lipoproteins In Vivo is Mediated by Specific Endothelial Cells," <u>J. Cell. Biol.</u> 100:103-117 (1985).
		POSTEL, et al., "Evidence that a triplex-forming oligodeoxynucleotide binds to the c-myc promoter in HeLa cells, thereby reducing c-myc mRNA levels," <u>Proc. Natl. Acad. Sci. USA</u> 88: 8227-8231 (1991).
		PREDESCU, et al., "Binding and Transcytosis of Glycoalbumin by the Microvascular Endothelium of the Native Myocardium: Evidence that Glycoalbumin Behaves as a Bifunctional Ligand," <u>J. Cell Biol.</u> 107:1729-1738 (1988).
		RIGOTTI, et al., "The Class B Scavenger Receptors SR-BI and CD36 are Receptors for Anionic Phospholipids," <u>J. Biol. Chem.</u> 270:1-4 (1995).
2		RIGOTTI, et al., "The Class B Scavenger Receptors SR-BI and CD36 Are Receptors for Anionic Phospholipids," <u>J. Biol. Chem.</u> 270(27):16221-16224 (1995).
		RIPKA, "Computers picture the perfect drug," <u>New Scientist</u> 54-57 (June 16, 1988).
		ROHRER, et al., "Coiled-coil fibrous domains mediate ligand-binding by macrophage scavenger receptor type II," <u>Nature</u> 343:570-572 (1990).
		ROUVINEN, et al., "Computer-aided Drug Design," <u>Acta Pharmaceutica Fennica</u> 97:159-166 (1988).
2		SAMBROOK, Fritsch, and Maniatis. <u>Molecular Cloning: A Laboratory Manual</u> , Second Edition, Cold Spring Harbor, NY, Cold Spring Harbor Laboratory Press (1989) (Table of Contents only).

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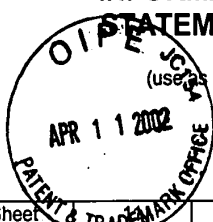
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		SARIN, et al., "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates," <i>Proc. Natl. Acad. Sci. USA</i> 85:7448-7451 (1989).	
		SAVILL, et al., "Macrophage-Vitronectin Receptor-CD36 and Thrombospondin Cooperate in Recognition of Neutrophils Undergoing Programmed Cell Death," <i>Chest</i> 99:6S-7S (suppl) (1991).	
		SCHAUB, et al., "Recombinant Human Macrophage Colony-Stimulating Factor Reduces Plasma Cholesterol and Carrageenase Granuloma Foam Cell Formation in Watanabe Heritable Hyperlipidemic Rabbits," <i>Arterioscler. Thromb.</i> 14(1):70-76 (1994).	
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		SEGE, et al., "Characterization of a Family of Gamma-Ray-Induced CHO Mutants Demonstrates that the IdIA Locus is Diploid and Encodes the Low-Density Lipoprotein Receptor," <i>Mol. Cell. Biol.</i> 6:3268-3277 (1986).	
		SEGE, et al., "Expression and regulation of human low-density-lipoprotein receptors in Chinese hamster ovary cells," <i>Nature</i> 307:742-745 (1984).	
		SHAW, et al., "Modified deoxypolynucleotides stable to exonuclease degradation in serum," <i>Nucleic Acids Res.</i> 19:737-750 (1991).	
		SPARROW, et al., "A Macrophage Receptor That Recognizes Oxidized Low-Density Lipoprotein but Not Acetylated Low-Density Lipoprotein," <i>J. Biol. Chem.</i> 264:2599-2604 (1989).	
		STANTON, et al., "A Macrophage Fe Receptor for IgG Is Also a Receptor for Oxidized Low-Density Lipoprotein," <i>J. Biol. Chem.</i> 267:22446-22451 (1992).	

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		STEINBERG, et al., "BEYOND CHOLESTEROL: Modifications of Low-Density Lipoprotein That Increase Its Atherogenicity," <i>N. Engl. J. Med.</i> 320:915-924 (1989).	
		STENT, G.S., et al., <i>Molecular Genetics</i> , pp. 243-249 (1971).	
a		SWIDA, et al., "Glue protein genes in <i>Drosophila virilis</i> : their organization, developmental control of transcription and specific mRNA degradation," <i>Development</i> 108(2):269-280 (1990).	
		SZOSTAK, "In Vitro Genetics," <i>TIBS</i> 19:89-93 (1992).	
		TANDON, et al., "Identification of Glycoprotein IV (CD36) as a Primary Receptor for Platelet-Collagen Adhesion," <i>J. Biol. Chem.</i> 264:7576-7583 (1989).	
		VANDEPOL, et al., "Clinical Applications of Recombinant Macrophage Colony-Stimulating Factor (rhM-CSF)," <i>Biotech. Therap.</i> 2:231-239 (1991).	
		VEGA, et al., "Cloning Sequences and Expression of a cDNA Encoding Rat LIMP-II, a Novel 74-kDa Lysosomal Membrane Protein Related to the Surface Adhesion Protein CD36," <i>J. Biol. Chem.</i> 266:16818-16824 (1991).	
		VIA, et al., "Identification and density-dependent regulation of the AG-LDL-Receptor in normal and transformed bovine aortic endothelial cells (BAEC)," <i>The FASEB J.</i> 6:A371, #2135 (1992).	
		VILLASCHI, et al., "Binding and Uptake of Native and Glycosylated Albumin-Gold Complexes in Perfused Rat Lungs," <i>Microvasc. Res.</i> 32:190-199 (1986).	
		WICKSTROM, et al., "Human promyelocytic leukemia HL-60 cell proliferation and c-myc protein expression are inhibited by an antisense pentadecadeoxynucleotide targeted against c-myc mRNA," <i>Proc. Natl. Acad. Sci. USA</i> 85:1028-1032 (1988).	

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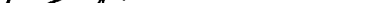
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		YOUNG, et al., "Triple helix formation inhibits transcription elongation in vitro," <i>Proc. Natl. Acad. Sci. USA</i> 88:10023-10026 (1991).
		ZAMECNIK, et al., "Inhibition of replication and expression of human T-cell lymphotropic virus type-III in cultured cells by exogenous sythenic oligonucleotides complementary to viral RNA," <i>Proc. Natl. Acad. Sci.</i> 83:4143-4146 (1986).
		ZAMECNIK, et al., "Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide," <i>Proc. Natl. Acad. Sci. USA</i> 75:280-284 (1978).
		ZHU, et al., "Systemic Gene Expression After Intravenous DNA Delivery into Adult Mice," <i>Science</i> 261:209-211 (1993).

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